

ABSTRACT OF THE DISCLOSURE

Two-shaft vacuum pumps are normally driven by asynchronous motors. The asynchronous motor rotors configured as cage rotors are relatively heavy and long and must therefore be supported by supporting bearings. It is an object of the invention to provide a two-shaft vacuum pump with a simplified drive motor. The two-shaft vacuum pump (10) according to the invention comprises a synchronous motor as a drive motor (20), wherein the motor rotor (26) is permanently excited. Permanently excited motor rotors (26) are smaller and of lighter weight such that rotor supporting bearings can be omitted. Thus, the problems associated with cooling and lubrication of the supporting bearings are eliminated either.

(Fig. 1)